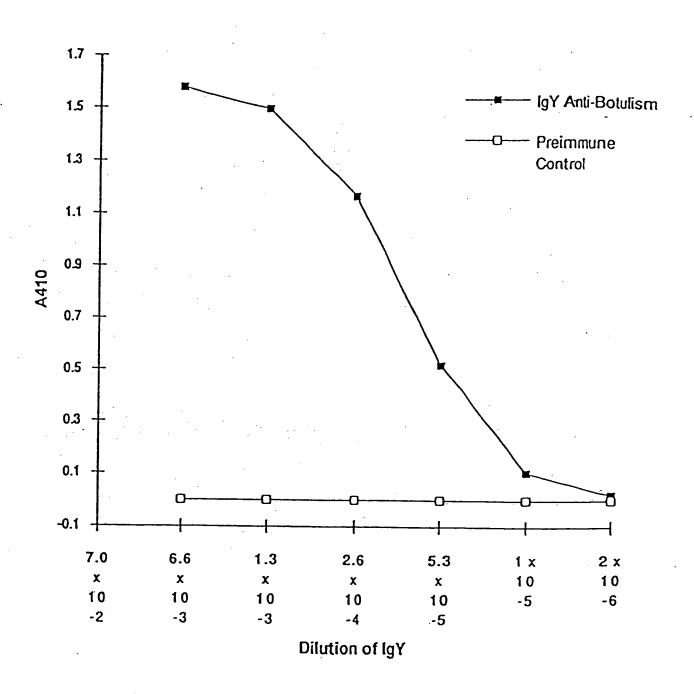
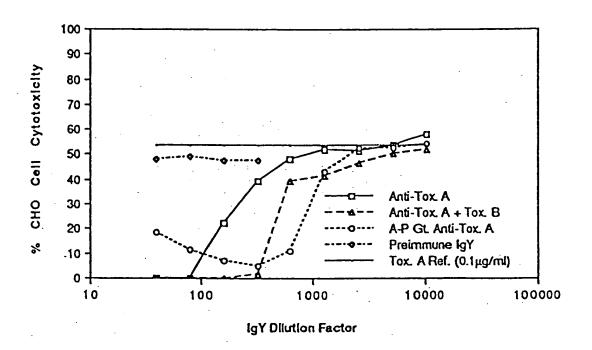
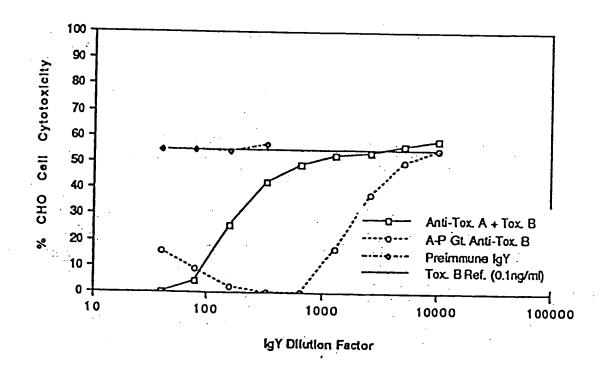
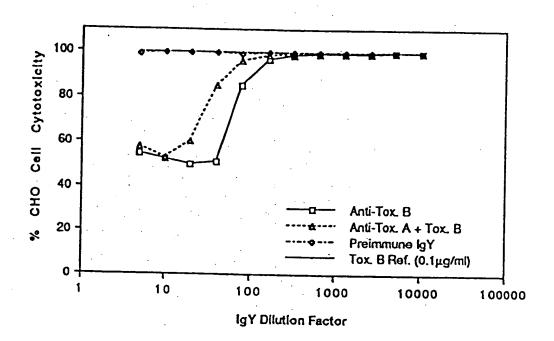


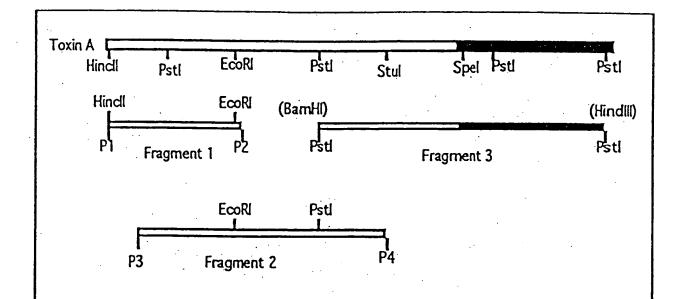
FIGURE 2



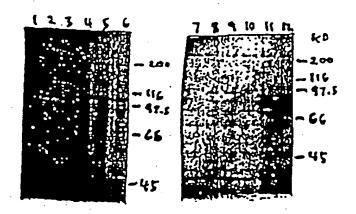


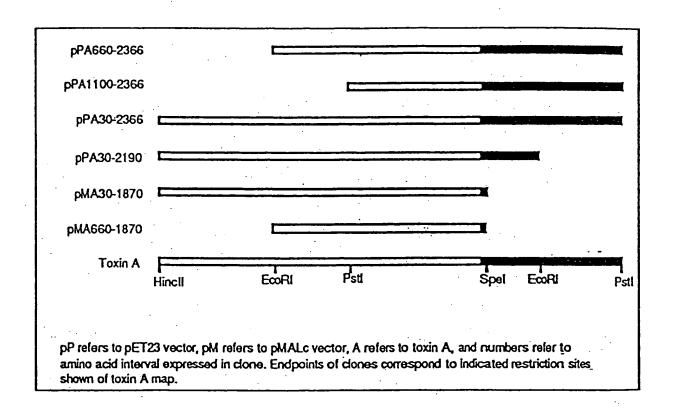




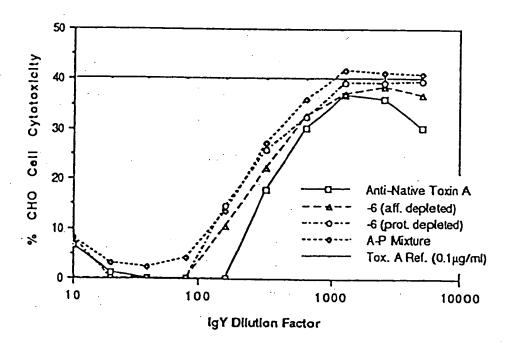


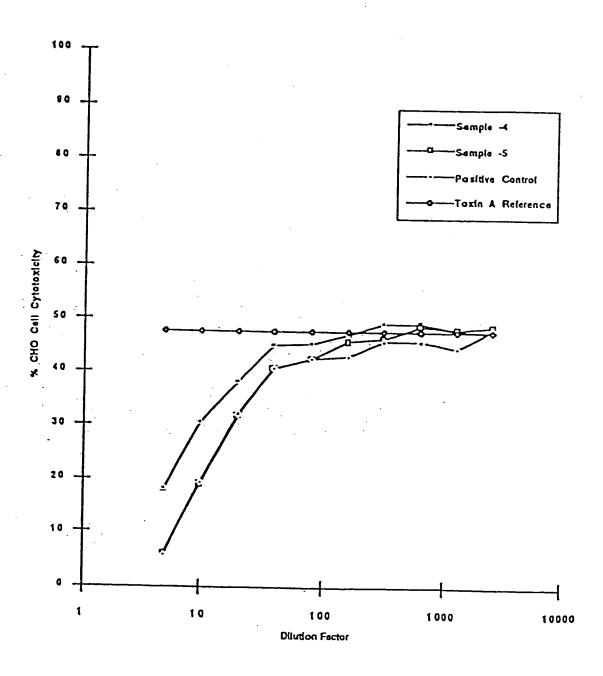
P1-P4 are PCR primers 1-4. P1=5'GGAAATTTAGCTGCAGCATCTGAC3', P2=5'TCTAGCAAATTCGCTTGTGTTGAA3',P3=5'CTCGCATATAGCATTAGACC3', P4=5'CTATCTAGGCCTAAAGTAT3'. Indicated restriction sites in fragments 1 and 2 are internal sites used to clone into pGEX2T vector (fragment 1; construct called pGA30-660) or pMALc vector (fragment 2; construct called pMA660-1100). Bracketed restriction sites at ends of fragment 3 are pUC9 polylinker sites utilized to clone fragment 3 into pET23 vector (construct called pPA1100-2680). Numbers in these constructs refer to toxin A amino acid interval that is expressed. The shaded portion of the toxin A gene corresponds to the repeating ligand binding domain.

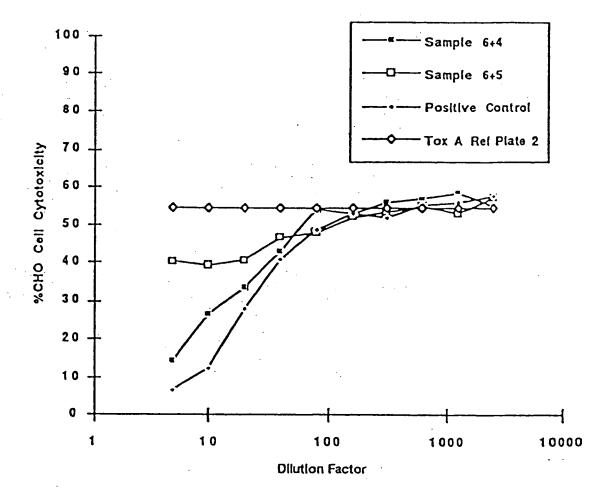


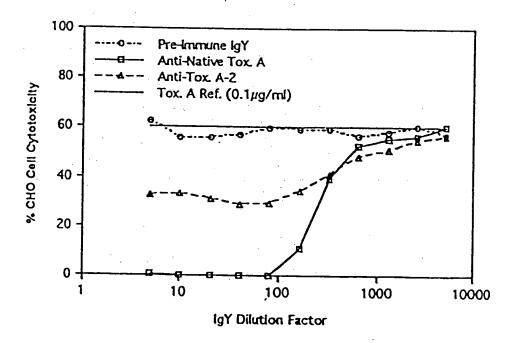


	Xbal			Clal			
Toxin A Hindl	Pstl Ec	oRI	Pstl	Stul	Spel Pstl		Pstl
pMA30-270			•		÷		
pMA30-300							
	рМА	1100-1610					
pMA300	-660	<b>I</b> pM	IA1610-18	370 🗀		•	
P	MA660-1100	<u> </u>	□ pM/	41870-26	80		
		рМА	1450-1870	o <u> </u>	<b>=</b>		
•	pPA	1100-1450		<b>=</b>			
	· pPA	1100-1870			<b>_</b>		
			pPA	1870-268	0		■
pP refers to pET2 to amino acid inte restriction sites sl	rval expressed in	n clone. Enc	Lc vector, Ipoints of	A refers to clones cor	o toxin A, and r respond to indi	umbers refe cated	er

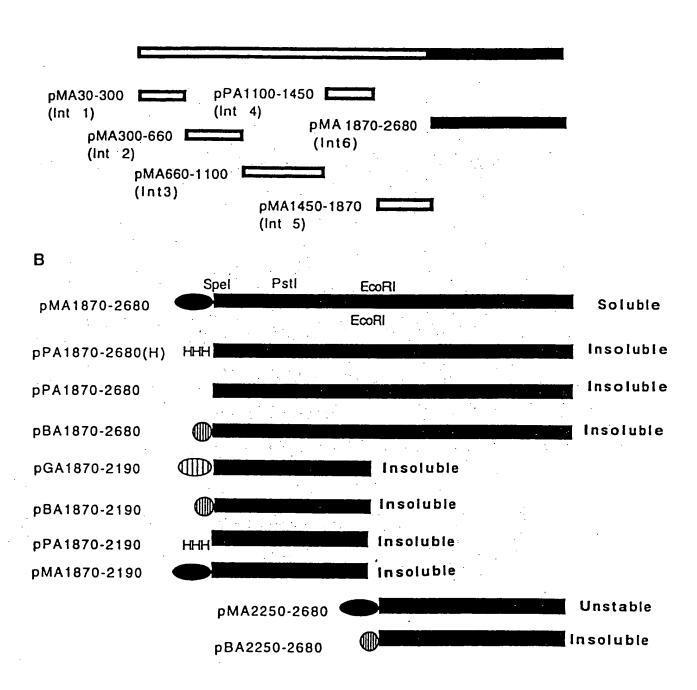


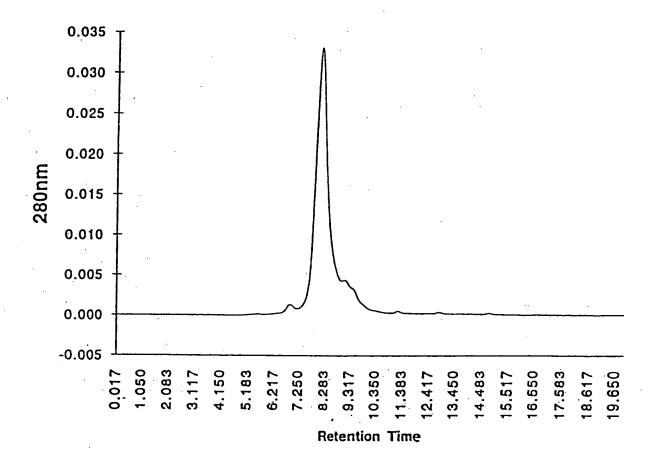


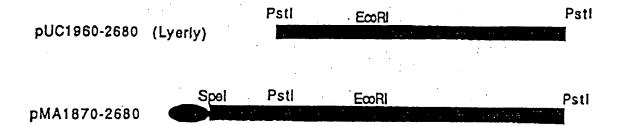


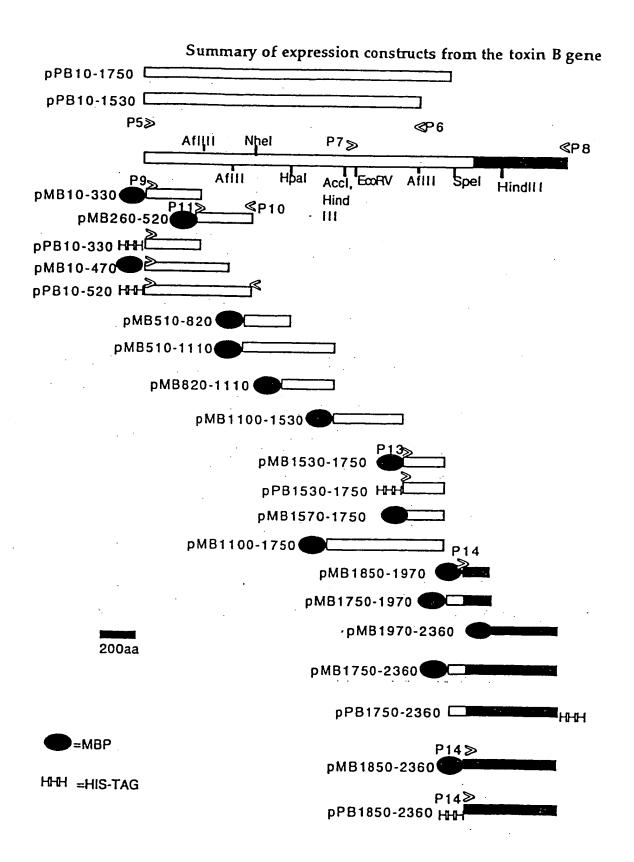


Α

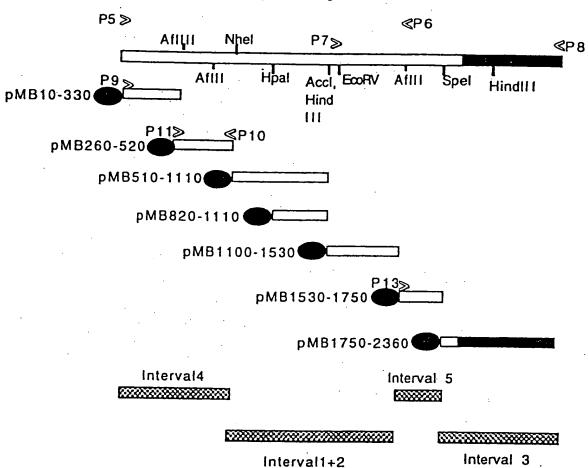








#### Interval specific expression constructs

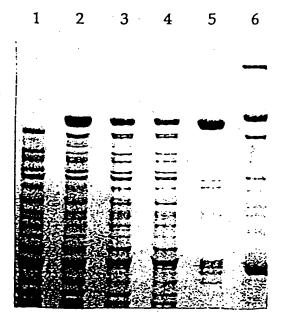


## Expression constructs from the interval 3 region **P8** P14(1850) (2360) Interval 3 Spel HindIII. Pvull (1750)(1970)(2070) pMB1750-2360 pPB1750-2360 pMB1750-1970 pMB1970-2360 pMB1850-2360 pPB1850-2360 pMB1850-1970 pPB1850-1970 HHH Insoluble pPB1850-2070 HHH I Insoluble pPB1750-1970C HHH Insoluble pPB1750-1970N

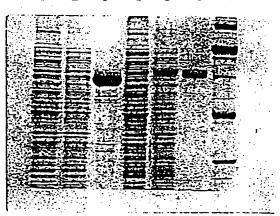
HHH

HHH

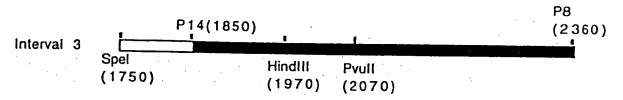
Insoluble

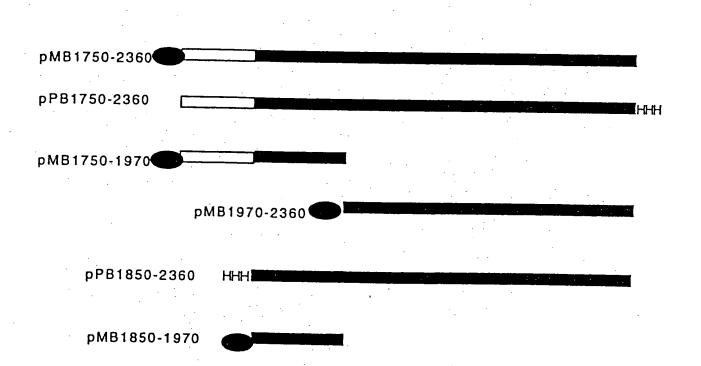


1 2 3 4 5 6 7

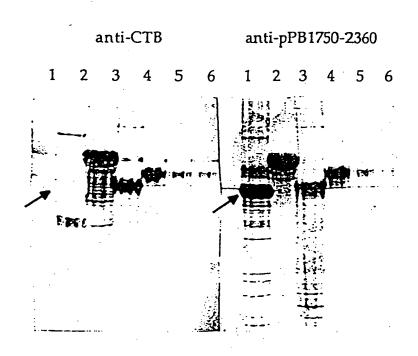


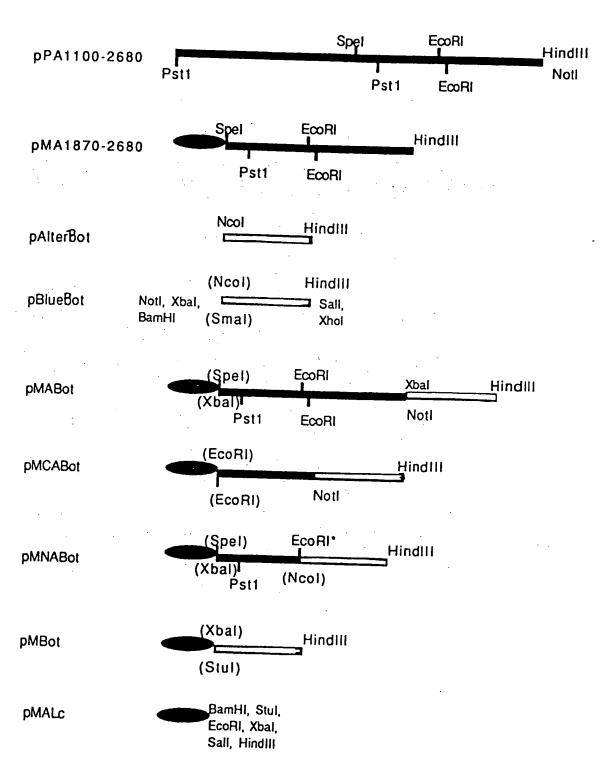
# Binding of neutralizing CTB antibodies by recombinant toxin B protein

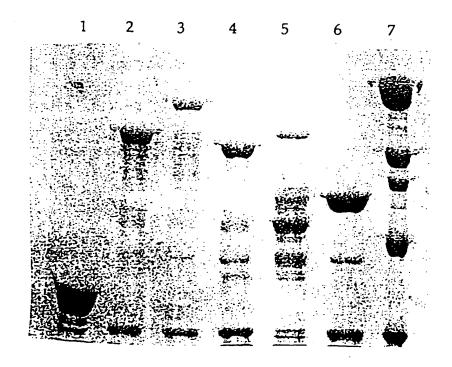


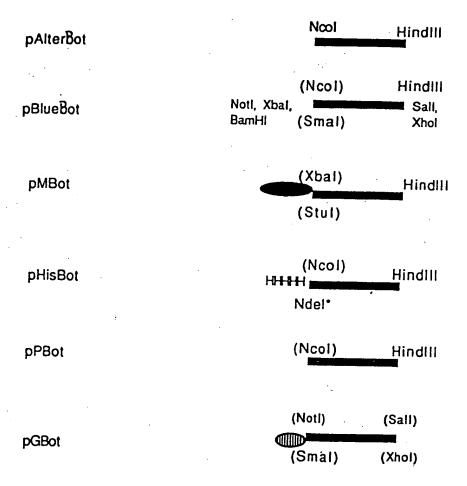


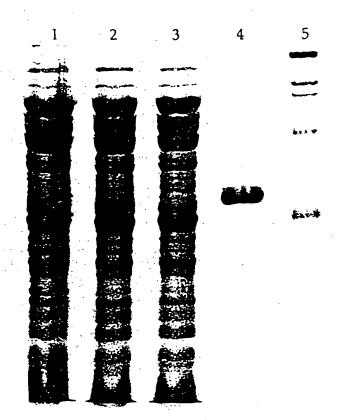
pPB1850-2070





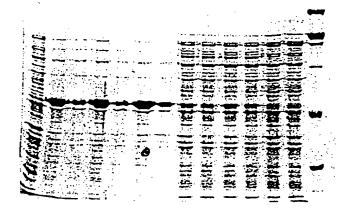


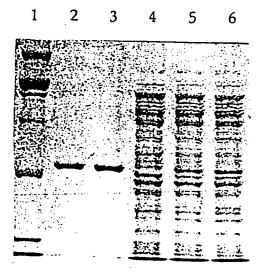


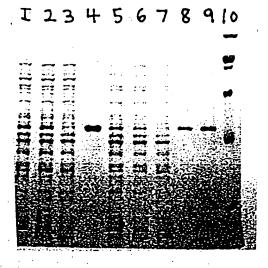


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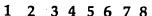
 $1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \ 10 \ 11 \ 12 \ 13 \ 14$ 

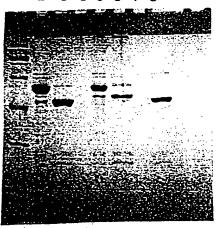


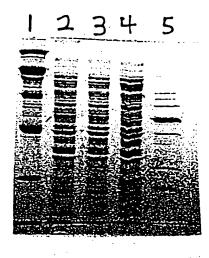




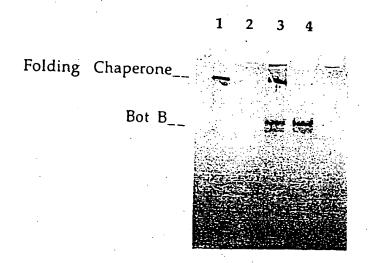








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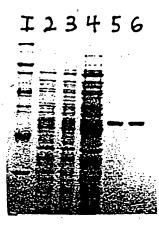




FIGURE 40

